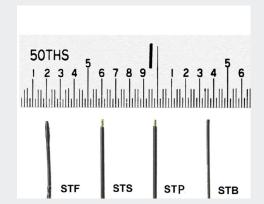


LUXTRON® FIBER OPTIC THERMOMETRY PROBES & ACCESSORIES

Immune, Accurate, and Safe Fiber Optic Probes and Accessories for use in Harsh Environments



Leading the industry for more than 30 years, Advanced Energy's LumaSense line of Luxtron fiber optic thermometry probes are rugged and robust. Using Luxtron's patented technology, our FluorOptic® probes are chemically resistant and immune to electromagnetic interference. Advanced Energy's LumaSense offers probes for an array of applications and has extensive experience designing customized probes for OEM applications.

PRODUCT HIGHLIGHTS

- Probes immune to a wide range of harsh environmental characteristics including but not limited to RF, MRI, microwave, induction heating, plasmas, and high voltage
- Chemically Resistant
- Non-Metallic
- Corrosion Resistant
- Safe for Flammable or Explosive Environments
- Stable and Inert Sensor

FIBER OPTIC TEMPERATURE SENSORS

TECHNICAL DATA

Probes					
Туре	Specifications	Diagram			
STF Probe	Surface contact Fast response immersion, air and liquid 0 to 295 °C				
Exposure Temperature Range Response Time Lengths Available OD Minimum Bend Radius Example Applications	1.25 seconds still air 0.25 seconds in stirred water 1 m, 2 m, 5 m, or 10 m 1.4 mm	1.4mm OD			
STS Probe Kit Kit Includes	Surface contact 2 m or 5 m probe and two 10 cm replacement tips				
Exposure Temperature Range Response Time Lengths Available OD Mininum Bend Radius Example Applications	2 m or 5 m	Very This 0.25mm Paymer Raiseness Leyer — To OO 0.7mm			
STP Probe	Non-contact remote sensing Phosphor and binder required (sold separately)	2.5cm 1.4mm OD			
Exposure Temperature Range Response Time Lengths Available OD Minimum Bend Radius Example Applications	2 m or 5 m 1.4 mm	Tip OD 0.7mm			
STB Probe	One FOC-ST extension required per probe				
Exposure Temperature Range Response Time Length Fiber Type Connector Type OD Minimum Bend Radius Example Applications	0.25 seconds 1 m	0.5 mm O.5 mm Approximately 0.5 mm			
AccuProbe & AccuDisc	Non-contact remote sensing				
Exposure Temperature Range Response Time Length OD Minimum Bend Radius Example Applications	3 mm	AccuProbe 3 mm OD ø6 mm M6s0.75 AccuDisc AccuDisc AccuDisc 25.6 mm 3.8 mm			

Notes:

- Listed probe lengths are standard. Custom probe lengths available upon request.
- 2. Listed minimum bend radii are for short term use (<2 hrs.) unless otherwise specified.

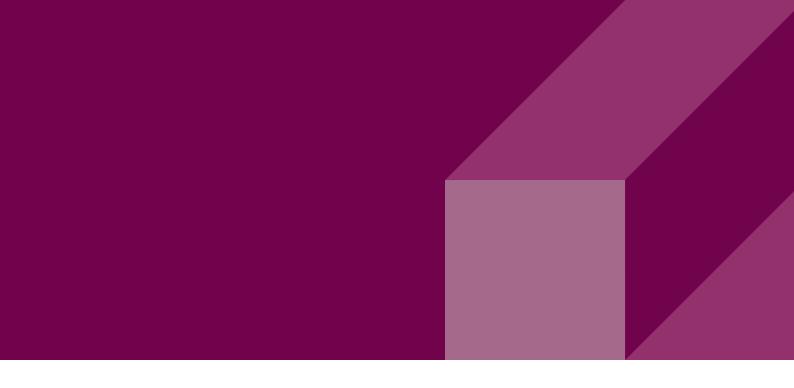


TECHNICAL DATA CONTINUED

Probes				
Туре	Specifications	Diagram		
Exposure Temperature Range Length	Monitoring Winding Hot Spot -30 to 200°C 1 m to 16 m 2.0 seconds in stirred water	Topic Inm Topic Transmitted Floor Tp Theres slocked Floor Tp Theres slocked Floor Tp Theres slocked Floor Tp		
Compression Gland Feedthrough Material Compatible Probes Temperature Range Maximum Vacuum Maximum Pressure Sealing Gland	-20 to 230°C 5e10° Torr 3,000 psi	1.27cm (0.5in.Hex) Sealant 1/8*NPT Fiber Optic Probe		

Extensions				
Туре	Exposure Temp. Range (°C)	Standard Lengths Available	Notes	
SST (general purpose)	-40 to 105	2 m, 5 m, or 10 m	-Optional use with STF, STS, and STR probes -Standard jacketed extension cable for normal use	
FOC-ST (medical)	0 to 80	2 m, 5 m, or 10 m	Required extension cable for use with STB general probe	
Single Fiber	0 to 80	- 1 m to 50 m	Used with DipTip Rugged Probes	
Four Fiber	-25 to 100			





ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than four decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

PRECISION | POWER | PERFORMANCE | TRUST

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